

ABSTRACT

Novel gel compositions, gel composites, and crystal gels and their articles are formed from one or more copolymers having polyethylene and crystalline poly(ethylene) components and high levels of one or more plasticizers, said gel compositions, gel composites, and said crystal gels having an amount of crystallinity, glassy components, in combination with other polymers and copolymers and selected plasticizers sufficient to achieve improvements in one or more physical properties including improved crack propagation resistance, improved tear resistance, improved resistance to fatigue and resistance to catastrophic failure not obtainable in amorphous gels and exceptionally lower tack.